



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,229	07/07/2003	Yuji Murayama	107348-00354	7016

4372 7590 12/29/2005

ARENT FOX PLLC
1050 CONNECTICUT AVENUE, N.W.
SUITE 400
WASHINGTON, DC 20036

EXAMINER

JACKSON, ANDRE L

ART UNIT PAPER NUMBER

3677

DATE MAILED: 12/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/613,229	MURAYAMA ET AL.	
	Examiner	Art Unit	
	Andre' L. Jackson	3677	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5862570 to Lezuch et al in view of USPN 4194265 to Zimmermann. Lezuch et al (Figs. 1-5) discloses check arm assembly for an automobile, comprising;

a case (50) secured to one of a body (16) of an automobile and a door (12) pivotally supported on the body for turning movement; a check plate (18) which movably extends through the case to be connected to the other of the body and the door and which is provided in its opposite sides with ball guide grooves (32, 34) extending in a lengthwise direction; a pair of ball holders (62) accommodated in the case and capable of advancing and retracting toward and away from the opposite sides of the check plate; a pair of balls (68) which are retained in hemispherical ball housings formed in the ball holders and which are rollably engaged in the ball guide grooves; and a check spring (70) for biasing the ball holders toward the check plate, a recess (defined by the inner-open surface between flanges 66) for maintaining proper self lubricating properties between the balls relative to the ball housings. However, Lezuch et al fails to disclose that the recess retains grease within the recess, where the recess further accommodates a dust therein as claimed.

Art Unit: 3677

Zimmermann teaches a door holder for an automobile, including a case (101) secured to one of a body of an automobile and a door pivotally supported on the body for turning movement; a check plate (102) which movably extends through the case to be connected to the other of the body and door and which is provided at opposites sides with ball guide grooves (114) extending in a lengthwise direction; a pair of ball holders or ends (103, 124) accommodated in the case and capable of advancing and retracting toward and away from the guide grooves; a pair of balls (105) which are retained in hemispherical ball housings (109). A recess (115) is formed in an inner surface of each ball housing and retains grease within the recess, the recess also accommodates a dust therein (col. 3, lines 62-67) via a hole (116), which assists to prevent friction between balls and grooves and avoiding in loss in sliding operation of the door holder. Therefore, it would have been obvious to one having ordinary skill in the art to modify the check arm assembly of Lezuch et al to include the door holder as taught by Zimmermann to provide an improved check arm assembly assisting in the prevention of abrasion of the working parts during sliding movements while avoiding performance deficiency as a result of dirt and/or debris.

Further, Lezuch et al discloses an alternative embodiment, as seen in Fig. 6, where projections are integrally formed on a first sidewall (83) of each ball holder (80) and resiliently abuts against an inner side of the case, the projections are disposed at respective ends of and extending away from the sidewall of the ball holder. However, applicant claim limitations require a projection disposed at a center of and extending away from the side of the ball holder. Here, Lezuch et al goes further to include a projection extending from a second sidewall (82) and disposed at a center of the ball holders respectively, which engage between the projections formed on the first sidewall. It would be obvious to one having ordinary skill in the art at the

time of applicant's invention was made such that the projection of the second sidewall is now formed integrally and centrally located and extending away from the first sidewall and conversely, the projections of the first sidewall are formed and disposed at the second sidewall, since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPQ 167.

As to claims 4-6, Lezuch et al in view of Zimmermann discloses that the recess of the door holder device further defines a circular recess (116) portion located at a center of the inner peripheral surface of the ball housing and connected to the groove via an annular portion (at 115) of the groove disposed near the ball guide grooves (Fig. 2). The annular portion of the recess is closed from the ball guide groove by a corresponding ball being placed in contact with the inner peripheral surface of the ball housing and at each side of the annular portion of the recess as seen in Fig. 2, convex grooves extend between and connect with two points on an outer peripheral surface of the ball which define distances from the ball guide grooves.

As to claims 2 and 3, Lezuch et al discloses that the recess has portions (64) extending in a lengthwise direction forming a triangular configuration as seen in Fig. 5, where outer ends are corners of the recess portions is closed by contact between a respective ball and inner peripheral surface (62) of the ball housing.

Response to Applicant's Arguments

Applicant's arguments with respect to claims 1-6 filed in the amendment of October 4, 2005 have been considered but are found not to be persuasive. Applicant has amended claim 1 to recite a projection formed on a side of each ball holder and resiliently abuts against an inner side

Art Unit: 3677

of the case, where the projection is disposed centrally of the side and extends away from the side of the ball holders as claimed. Applicant contends neither Lezuch et al nor Zimmermann disclose or suggest the specific arrangement of the newly recited claim limitations as presently presented whether each reference is used singly or in combination. The Examiner disagrees with applicant and believes Lezuch et al discloses an alternative embodiment, as seen in Fig. 6, where projections are integrally formed on a first sidewall (83) of each ball holder (80) and resiliently abuts against an inner side of the case. The projections are disposed at respective ends of and extending away from the sidewall of the ball holder. Although applicant claim limitations require a projection disposed at a center of and extending away from the side of the ball holder, Lezuch et al goes further to include a projection extending from a second sidewall (82) and disposed at a center of the ball holders respectively, which engage between the projections formed on the first sidewall. The Examiner believes it would be obvious to one having ordinary skill in the art at the time of applicant's invention was made to modify Lezuch et al such that the projection of the second sidewall is now formed integrally and centrally located and extending away from the first sidewall and conversely, the projections of the first sidewall are formed and disposed at the second sidewall, since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. Subsequently, by this reversal of parts interpretation, the Examiner believes the structural limitations of applicant's claims are met. Therefore, for the reasoning above, the Examiner believes Lezuch et al in view of Zimmermann renders applicant's claims obvious and non-novel over the prior art. Accordingly, claims 1-6 remain unpatentable over the prior art of record.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre' L. Jackson whose telephone number is (571) 272-7067. The examiner can normally be reached on Mon. - Fri. (9:30 am - 6 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy J. Swann can be reached on (571) 272-7075. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3677

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

André L. Jackson
Patent Examiner
AU 3677

ALJ


ROBERT J. SANDY
PRIMARY EXAMINER